Title (en)

ALUMINIUM ALLOYS, SUBSTRATES COATED WITH SAME AND THEIR APPLICATIONS

Title (de)

ALUMINIUMLEGIERUNGEN SOWIE MIT DIESEN LEGIERUNGEN BESCHICHTETE SUBSTRATE UND IHRE VERWENDUNGEN

Title (fr)

ALLIAGES D'ALUMINIUM, LES SUBSTRATS REVETUS DE CES ALLIAGES ET LEURS APPLICATIONS

Publication

EP 0521138 B1 19971119 (FR)

Application

EP 92904842 A 19920115

Priority

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- FR 9100549 A 19910118

Abstract (en)

[origin: WO9213111A1] Alloys, the essential constituent of which is aluminium, metal deposits using on said alloys, substrates coated with same and their application. The alloys of the present invention are characterized by having the following atomic composition (I): Ala?Cub?Cob'?(B, C)c?Md?Ne?If?, a + b + b' + c + d + e + f = 100 number of atoms, a 50, 0 b < 14, 0 b' 22, 0 < b + b' 30, 0 c 5, 8 d 30, 0 e 4, f 2, M being one or more elements selected from Fe, Cr, Mn, Ni, Ru, Os, Mo, V, Mg, Zn, Pd; N being one or more elements selected from W, Ti, Zr, Hf, Rh, Nb, Ta, Y, Si, Ge, the rare earths; I being the impurities inevitably formed during processing; and in that they contain at least 30 % in mass of one or more quasicrystalline phases.

IPC 1-7

C22C 21/00; C22C 21/12; C23C 30/00

IPC 8 full level

C22C 21/00 (2006.01); **C22C 21/06** (2006.01); **C22C 21/12** (2006.01); **C22C 45/08** (2006.01)

CPC (source: EP)

C22C 21/00 (2013.01); **C22C 21/06** (2013.01); **C22C 21/12** (2013.01); **C22C 45/08** (2013.01)

Citation (examination)

US pages 6525 - 6528; C. BERGER ET AL: 'EXPERIMENTAL EVIDENCE FOR THE EXISTENCE OF ENHANCED DENSITY OF STATES AND CANONICAL SPIN-GLASS BEHAVIOR IN AL-MN(-SI) QUASICRYSTALS'

Cited by

DE10332420A1; FR2939125A1; FR2939126A1; EA022538B1; US6589370B1; US7169478B2; WO2010063930A1

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